

ARSET

Applied Remote Sensing Training

<http://arset.gsfc.nasa.gov>

 @NASAARSET

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# Applied Remote Sensing Training

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Cindy Schmidt, NASA ARSET

# NASA's Applied Remote Sensing Training Program (ARSET)

<http://arset.gsfc.nasa.gov/>

- Empowering the global community through remote sensing training
- Part of NASA's Applied Sciences Capacity Building Program
- Goal: increase the use of Earth Science in decision-making through training for:
  - policy makers
  - environmental managers
  - other professionals in the public and private sector
- Trainings offered focusing on applications in:



Disasters



Land



Health & Air Quality



Water Resources

# ARSET Training Formats

## Online

- Offered through the internet
- Available live and recorded
- Typically 1 hr session, once per week, over 4-6 weeks
- Available at all training levels:
  - Fundamentals of Remote Sensing
  - Introductory
  - Advanced

## In-Person

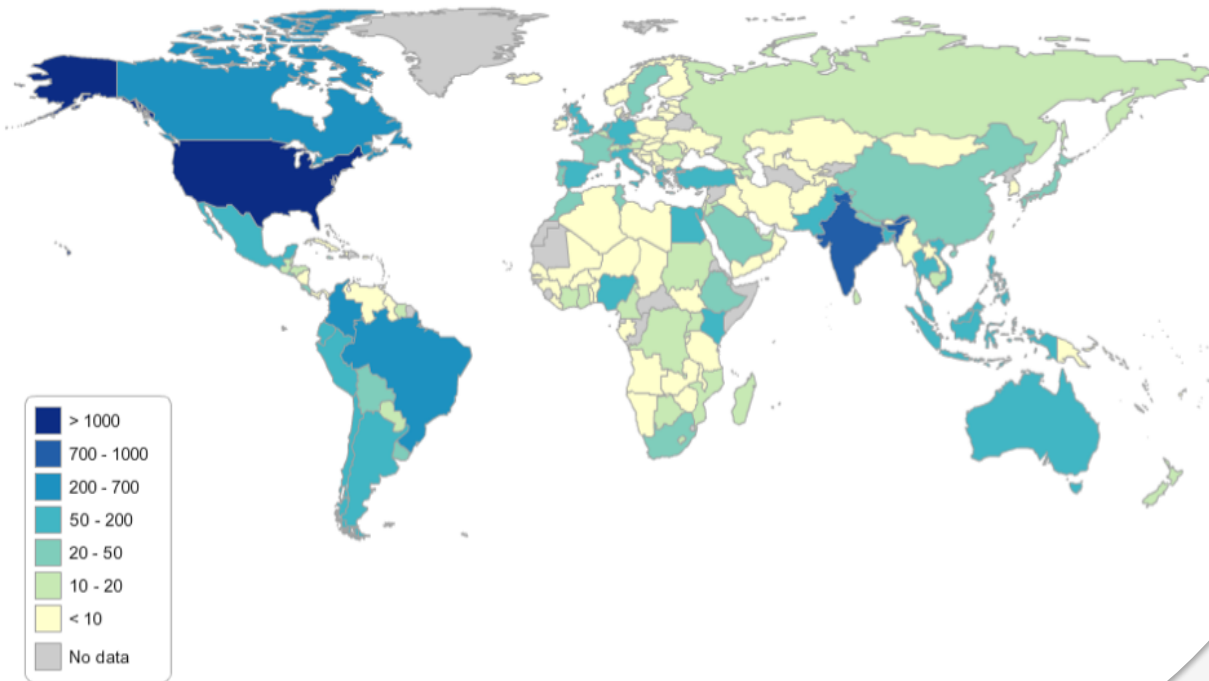
- 2-7 days in length
- Held in a computer lab
- Mixture of lectures and exercises
- Locally relevant case studies
- Available levels:
  - Introductory
  - Advanced

## Train the Trainers

- Trainings and materials
- Offered online & in-person
- For organizers seeking to develop their own applied remote sensing training programs

# ARSET's Global Footprint

**ARSET Participants by Country  
2009 – 2016**



83 ARSET Trainings

8,000+ participants reached

2,600+ organizations reached

160 + countries reached

55 U.S. States, Territories, and D.C. reached

# ARSET Website: View Webinars

<http://arset.gsfc.nasa.gov/webinars>

ARSET-Dev  
Applied Remote Sensing Training

Home About Trainings

Applied Remote Sensing Training

Using NASA Remote Sensing for Disaster Management

June 9-30, 2016  
Thursdays,  
11:00 a.m.-12:00 p.m. and 6:00-7:00 p.m. EDT

Learn More

ARSET

Webinars

Workshops

Suggest a Training

Personnel

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Upcoming Training

Disasters

Using NASA Remote Sensing for Disaster Management

06/09/2016 to 06/30/2016

Airquality

Fundamentals of Satellite Remote Sensing for Health Monitoring

06/02/2016 to 06/30/2016

Land

Remote Sensing of Forest Cover and Change Assessment for Carbon Monitoring

06/09/2016 to 07/07/2016

ARSET helps professionals build the necessary skills to integrate NASA Earth Science data into their agency's decision-making activities. Trainings are offered in areas of disasters, health & air quality, land, water resources, and wildfires.

By hosting [online webinars](#) and [in-person workshops](#), ARSET has had over 4,000 participants from more than 130 countries how to access, visualize, and apply NASA remote sensing data and imagery.

Trainings teach professionals how to:

- search, access, and use NASA data products
- use and interpret satellite imagery appropriately
- visualize and analyze NASA data and imagery using NASA, EPA, and NOAA web-based tools; GIS; Google Earth; Panoply; HDFLook; and other resources.

If you or your organization is interested in suggesting a training topic or hosting a training, [let us know](#).

ARSET is sponsored by the Applied Sciences Program within NASA's Earth Sciences Division. We would like to thank Nancy Seaby, Applied Science Capacity Building Program Manager, for her support of this project.

**Stay Informed**

If you would like information on upcoming workshops and project activities please sign up for the [listserv](#).

Last updated: May 06, 2016  
NASA Official: Kenneth Pickering  
Webmaster: Susannah Pearce

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Home About Trainings

Webinars

ARSET offers online webinars throughout the year. Each training lasts four to five weeks, one hour per week, and are often offered twice a day to accommodate attendees in different time zones. Webinars are appropriate for professionals engaged in applied environmental management.

These online courses help beginners and advanced professionals use NASA Earth science data and modeling in areas of air quality, disaster management, land management, water resources, and wildfire detection and modeling.

ARSET hosts both introductory and advanced webinars. Check the individual webinar page for its level and more information. Most webinars have materials available in English and Spanish.

**Introductory Webinars**

Trainings are appropriate for applied professionals with no remote sensing experience.

**Advanced Webinars**

Trainings are appropriate for professionals with experience in remote sensing or NASA data and resources. Advanced topics will detail specific data or applications by region or discipline. These advanced trainings have case studies and hands-on exercises for participants on data access and processing.

**Introduction to Satellite Remote Sensing for Air Quality Applications**

Wednesday, July 6, 2016 to Wednesday, August 3, 2016  
8:00 - 9:00 a.m. EDT (UTC-4)

**Application Area:** [Airquality](#)

**Instruments/Missions:** [Aqua](#), [Aura](#), [CALIPSO](#), [MISR](#), [MODIS](#), [NPP](#), [Terra](#)

**Keywords:** [Aerosols](#), [Air Pollution](#), [Pollution Transport](#), [Satellite Imagery](#), [Tools](#), [Trace Gases](#)

[Read more](#)

**Introduction to Remote Sensing for Coastal and Ocean Applications**

Wednesday, July 6, 2016 to Wednesday, July 27, 2016  
1:00-2:00 p.m. EDT (UTC-4)

**Application Area:** [Land](#), [Water](#)

**Instruments/Missions:** [Aqua](#), [MODIS](#), [NPP](#), [Terra](#), [VIIRS](#)

**Keywords:** [Satellite Imagery](#), [Tools](#), [Water Quality](#)

[Read more](#)

**Remote Sensing of Forest Cover and Change Assessment for Carbon Monitoring**

Thursday, June 9, 2016 to Thursday, July 7, 2016

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# Upcoming Trainings

- **Advanced Webinar: Methods in Using NASA Remote Sensing for Health Applications** (online): June 1-15, 2017 <https://go.nasa.gov/2pLSiOy>
- **Remote Sensing of Land Indicators for Sustainable Development Goal 15** (online): June 20-22, 2017 <https://go.nasa.gov/2pslSbi>
- **Remote Sensing of Drought** (online): June 12 & 19, 2017
- **Introduction to Synthetic Aperture Radar** (online): June 28, 29, July 5, 6
- Keep updated by signing up for the ARSET listserv: <https://lists.nasa.gov/mailman/listinfo/arset>